

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 August 2005 (18.08.2005)

PCT

(10) International Publication Number
WO 2005/074980 A1

(51) International Patent Classification⁷: **A61K 39/00**

(74) Agent: **HUHN, Michael**; Isenbruck-Bösl-Hörschler-
Wichmann-Huhn, Theodor-Heuss-Anlage 12, 68165
Mannheim (DE).

(21) International Application Number:
PCT/EP2004/013539

(22) International Filing Date:
29 November 2004 (29.11.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04001895.4 29 January 2004 (29.01.2004) EP
04001894.7 29 January 2004 (29.01.2004) EP
04007447.8 26 March 2004 (26.03.2004) EP
PCT/EP2004/004891 7 May 2004 (07.05.2004) EP
PCT/EP2004/004889 7 May 2004 (07.05.2004) EP

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **CELL-ZOME AG** [DE/DE]; Meyerhofstrasse 1, 69117 Heidelberg (DE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HOPF, Carsten** [DE/DE]; Nietzschestrasse 30, 68165 Mannheim (DE). **DREWES, Gerard** [NL/DE]; Burgstrasse 13, 69121 Heidelberg (DE). **RUFFNER, Heinz** [CH/DE]; Schulstrasse 7, 69245 Bammental (DE).

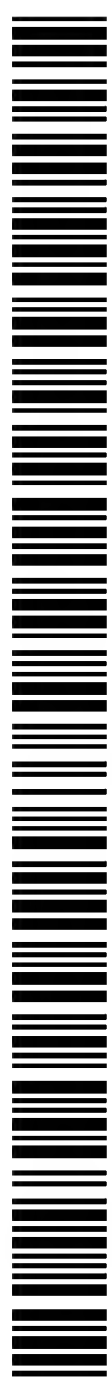
Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TREATMENT OF NEURODEGENERATIVE DISEASES BY THE USE OF GPR49

(57) Abstract: The invention relates to the use of a GPR49-interacting molecule for the preparation of a pharmaceutical composition for the treatment of a neurogenerative disease. Hereby s the GPR49-interacting molecule is preferably an inhibitor of GPR49 and particularly it has the capacity to modulate the activity of gamma-secretase and/or beta-secretase. Furthermore the invention concerns a process for identifying a gamma-secretase and/or a beta-secretase modulator, comprising the following steps: a. identifying of a GPR49-interacting molecule by determining whether a given test compound is a GPR49-interacting molecule, b. determining whether the GPR49-interacting molecule of step a) is capable of modulating gamma-secretase and/or beta-secretase activity.



WO 2005/074980 A1